

- a) a body having an inlet at one end adapted for connection in fluid communication with precision dispensing apparatus and having an outlet at another end of the body;
- b) a fluid conducting passage in the body for connecting the inlet to the outlet, the passage having a first portion converging in a direction immediately from the inlet to an intermediate location in the body and a second portion of constant diameter extending from the intermediate location to the outlet;
- c) so that the passage conducts fluid from the inlet to the outlet in a continuous and uninterrupted manner and in a manner avoiding introduction of turbulence to fluid flow in the tip; and
- d) wherein the body has a longitudinal axis and the first and second portions extend along the axis and wherein the outlet has a diameter such that the diameter of a drop of viscous fluid leaving the outlet is directly proportional to the ratio of the axial length of the second portion to the axial length of the first portion.

9. (Amended) A precision dispensing tip for use with precision dispensing apparatus for delivering controlled amounts of fluid to a selected location comprising: